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Amendments to the Claims

Please amend the claims as shown below in the complete listing of claims.

1. (Currently Amended) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing and including:

a liquid dispenser for applying liquid to the surface to be cleaned;

a fluid supply chamber for holding a supply of cleaning fluid;

a fluid supply conduit fluidly connected to the fluid supply chamber and to the liquid dispenser for supplying fluid to the dispenser;

a fluid recovery system mounted to the housing and including:

a recovery chamber for holding recovered fluid;

a suction nozzle;

a working air conduit extending between the recovery chamber and the suction nozzle; and

a vacuum source mounted to the housing and in fluid communication with the recovery chamber for generating a flow of working air from the suction nozzle through the working air conduit and to the recovery chamber to thereby draw dirty liquid from the surface to be cleaned through the suction nozzle and the working air conduit, and into the recovery chamber;

the improvement which comprises:

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a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned; and

a power drive assembly including an air drive turbine motor mounted to the housing and connected to the traction driver for selectively propelling the base over the surface to be cleaned.

2-9. (Cancelled)

10. (Currently Amended) The extraction surface cleaning apparatus of claim 9~~52~~ wherein a projection of the drive axle onto the one of the radial surfaces of the flywheel defines a diametrical line across the flywheel and the drive wheel contact with the flywheel is along the diametrical line, whereby axial shifting of the drive wheel along the drive axle changes the gear ratio and can also change the direction of rotation of the drive axle.

11. (Original) The extraction cleaning apparatus of claim 10 and further comprising a worm gear driven by the motor and wherein the flywheel has an outer circumferential gear edge that is driven by the worm gear.

12-15. (Cancelled)

16. (Currently Amended) The extraction surface cleaning apparatus of claim ~~15~~53 wherein the belt tensioner assembly comprises a plate slidably mounted to the housing, a pair of wheels rotatably mounted on the plate and the belt is weaved between the wheels so that proper tension is maintained when the belt is driven in either direction.

17-18. (Cancelled)

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19. (Currently Amended) The extraction surface cleaning apparatus according to claim ~~18~~55 wherein the drive motor is mounted to the handle and further comprising a belt operably connected to the drive motor and the wheel sprocket for driving the traction driver.

20-25. (Cancelled)

26. (Currently Amended) The extraction surface cleaning apparatus of claim ~~25~~58 wherein the drive actuator further comprises a mounting block slidable on the handle and further comprising a solution valve mechanism in the fluid supply conduit mounted to the sliding block for movement therewith.

27. (Currently Amended) The extraction surface cleaning apparatus of claim 26 and further comprising a solution valve actuator mounted to the handle grip and connected to the solution valve mechanism to control the flow of cleaning fluid through the solution valve mechanism to the liquid dispenser from the fluid supply chamber.

28. (Currently Amended) The extraction surface cleaning apparatus of claim ~~25~~58 and further comprising a lock for selectively locking the handle grip in the neutral position when the handle is in a reclining position.

29. (Currently Amended) The extraction surface cleaning apparatus of claim 28 wherein the lock comprises an aperture in the handle grip and an aperture in the upper end portion of the handle and apertures aligned with each other when the handle grip is in the neutral position; and

a pin selectively moveable between a locked position wherein the pin is positioned within both of the apertures and an unlocked position wherein the pin is retracted from at least one of the two apertures.

30. (Currently Amended) The extraction surface cleaning apparatus of claim ~~4~~58 and further comprising a carry handle affixed to the upright handle.

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31. (Cancelled)

32. (Previously presented) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

at least two wheels mounted to the base for supporting the housing for movement along the surface to be cleaned;

a liquid dispensing system mounted to the housing and including:

a liquid dispenser for applying liquid to the surface to be cleaned;

a fluid supply chamber for holding a supply of cleaning fluid;

a fluid supply conduit fluidly connected to the fluid supply chamber and to the liquid dispenser for supplying fluid to the liquid dispenser;

a fluid recovery system mounted to the housing and including:

a recovery chamber for holding recovered fluid;

a suction nozzle;

a working air conduit extending between the recovery chamber and the suction nozzle; and

a vacuum source mounted to the housing and in fluid communication with the recovery chamber for generating a flow of working air from the suction nozzle through the working air conduit and through the recovery chamber to thereby draw dirty liquid from the surface to be cleaned through the suction nozzle and the working air conduit, and into the recovery chamber;

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a drive motor comprising a unidirectional electric motor mounted on the housing;

a transmission assembly operably connected between the drive motor and at least one of the wheels for selectively connecting the drive motor with the at least one wheel, the transmission assembly including a first gear train selectively connected between the drive motor and the at least one wheel for driving the base in a forward direction;

a second gear train selectively connected between the drive motor and the at least one wheel for driving the base in a reverse direction;

a clutch mechanism moveable between the first and second gear trains to alternately connect the first and second gear trains between the drive motor and the at least one wheel;

a belt drive connecting the transmission assembly to the at least one wheel, the belt drive including a tension adjuster for maintaining a predetermined tension on the belt when the base is driven in the front and the rear directions;

the handle having a grip mounted to an upper end thereof, the grip being slidably mounted on the upper end of the handle between an extended position, a neutral position and a retracted position;

a drive actuator mounted on the grip portion and moveable therewith;

a link between the grip and the clutch to move the clutch between the first gear train and the second gear train and to a neutral position between the two gear trains.

33. (Previously presented) The extraction surface cleaning apparatus according to claim 32 and further comprising a direct connection between the drive motor and the transmission assembly.

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34. (Previously presented) The extraction surface cleaning apparatus according to claim 33 wherein the drive motor and the transmission assembly are both mounted to the upright handle.

35. (Previously presented) The extraction surface cleaning apparatus according to claim 32 wherein the drive motor and the transmission assembly are both mounted to the upright handle.

36. (Previously presented) The extraction surface cleaning apparatus according to claim 32 wherein the vacuum source includes a vacuum motor and the vacuum motor and the drive motor are independent of each other.

37. (Cancelled)

38. (Previously presented) The extraction surface cleaning apparatus according to claim 37 wherein at least a portion of the power drive assembly is mounted to the upright handle.

39. (Cancelled) The extraction surface cleaning apparatus according to claim 38 wherein the power drive assembly comprises a drive motor and a transmission assembly and further comprising a direct connection between the drive motor and the transmission assembly.

40. (Cancelled) The extraction surface cleaning apparatus according to claim 37 wherein the power drive assembly comprises a drive motor and a transmission assembly and further comprising a direct connection between the drive motor and the transmission assembly.

41. (Previously presented) The extraction surface cleaning apparatus according to claim 37 wherein the fluid recovery system includes a recovery tank and the recovery tank is mounted in the base.

42. (Currently Amended) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing and including a fluid supply chamber for holding a supply of cleaning fluid and a liquid dispenser for applying cleaning fluid from the fluid supply chamber to the surface to be cleaned;

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a fluid recovery system mounted to the housing and including a suction nozzle and a vacuum source, including a vacuum motor, in fluid communication with the suction nozzle to draw dirty liquid from the surface to be cleaned through the suction nozzle;

a traction driver mounted to the base for powered movement of the housing along the surface to be cleaned;

a drive motor, a transmission assembly and a direct connection between the drive motor and the transmission assembly, all mounted to the housing, wherein the transmission assembly is connected to the traction driver for selectively propelling the base over the surface to be cleaned.

43. (Currently Amended) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a handle grip slidably mounted on an upper end portion of the handle for axial movement along the handle between forward, neutral and rearward positions;

a liquid dispensing system mounted to the housing and including a fluid supply chamber for holding a supply of cleaning fluid and a liquid dispenser for applying cleaning fluid from the fluid supply chamber to the surface to be cleaned;

a fluid recovery system mounted to the housing and including a suction nozzle and a vacuum source, including a vacuum motor, in fluid communication with the suction nozzle to draw dirty liquid from the surface to be cleaned through the suction nozzle;

a traction driver mounted to the base for powered movement of the housing along the surface to be cleaned;

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a power drive assembly mounted to the housing and connected to the traction driver for selectively propelling the base over the surface to be cleaned in a forward and reverse direction;

a connection between the handle grip and the power drive assembly for controlling the direction of the propulsion of the base assembly in a forward, neutral or rearward position depending of the position of the handle grip in the forward, neutral and rearward positions, respectively; and

a lock including a rotatable knob mounted on the handle and accessible to the operator for selectively locking the handle grip in the neutral position.

44. (Cancelled)

45. (Previously presented) The extraction surface cleaning apparatus of claim 43 wherein the handle grip is biased to the neutral position for disablement of the power drive assembly.

46. (Cancelled)

47. (Currently Amended) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing and including a fluid supply chamber for holding a supply of cleaning fluid and a liquid dispenser for applying cleaning fluid from the fluid supply chamber to the surface to be cleaned;

a fluid recovery system mounted to the housing and including a suction nozzle and a vacuum source, including a vacuum motor, in fluid communication with the suction nozzle to draw dirty liquid from the surface to be cleaned through the suction nozzle;

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a traction driver mounted to the base for powered movement of the housing along the surface to be cleaned;

a power drive assembly mounted to the housing and connected to the traction driver for selectively propelling the base over the surface to be cleaned; ~~and~~

a flywheel mounted for rotation about a central axis having a radial surface;

the traction driver is non-rotatably mounted on a drive axle and the drive axle is mounted for rotation about an axis parallel and adjacent to the flywheel radial surface; and

a drive wheel is axially shiftable and non rotatably mounted on the drive axle for rotation therewith, and the drive wheel has an outer circumferential surface that frictionally engages the radial surface of the fly wheel and is driven thereby to transfer rotary motion of the fly wheel to rotary motion of the drive axle;

wherein shifting of the drive wheel along the drive axle from one side of the radial surface to the another side changes the direction of rotation of the drive wheel.

48. (Currently Amended) The extraction surface cleaning apparatus of claim 47 wherein the radial surface has a recessed area between the sides of the radial surface and drive wheel is adapted to be positioned in registry with the recessed area, out of contact with the radial surface to disconnect the ~~drive between the flywheel and from~~ the drive wheel.

49. (Currently Amended) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a handle grip slidably mounted on an upper end portion of the handle for axial movement along the handle between forward, neutral and rearward positions;

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a liquid dispensing system mounted to the housing and including a fluid supply chamber for holding a supply of cleaning fluid, a liquid dispenser and a fluid supply conduit, including a solution valve, between the liquid fluid supply chamber and the liquid dispenser for selectively applying cleaning fluid from the fluid supply chamber to the surface to be cleaned;

a fluid recovery system mounted to the housing and including a suction nozzle and a vacuum source in fluid communication with the suction nozzle to draw dirty liquid from the surface to be cleaned through the suction nozzle;

a traction driver mounted to the base for powered movement of the housing along the surface to be cleaned;

a power drive assembly mounted to the housing and connected to the traction driver for selectively propelling the base over the surface to be cleaned in a forward and reverse direction;

a connection between the handle grip and the power drive assembly for controlling the direction of the propulsion of the base assembly in a forward, neutral or rearward position depending of the position of the handle grip in the forward, neutral and rearward positions, respectively;

wherein the connection between the handle grip and the power drive assembly includes a mounting block, slidable on the handle; and

the solution valve is mounted to the ~~sliding-mounting~~ block for movement therewith.

4950. Currently Amended The extraction surface cleaning apparatus of claim 4849 and further comprising a cleaning solution actuator mounted on the handle grip and connected to the solution valve for selectively opening the solution valve to control the supply of cleaning fluid to the liquid ~~distributor~~ dispenser.

51. (New) An extraction surface cleaning apparatus having:

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a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned;

a reversible electric drive motor mounted to the housing and selectively coupled to the traction driver for selectively driving the traction driver in two directions and a drive actuator on the handle operably connected to the drive motor for controlling the selective driving of the traction driver to propel the base over the surface to be cleaned.

52. (New) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned;

an electric drive motor mounted to the housing and a transmission assembly operably connected between the electric drive motor and the traction driver to selectively drive the traction driver in two directions;

a drive actuator on the handle operably connected to the drive motor for controlling the selective driving of the traction driver to propel the base over the surface to be cleaned; and

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wherein the transmission assembly comprises:

a flywheel mounted for rotation about a central axis having a pair of parallel radial surfaces;

the traction driver is non-rotatably mounted on a drive axle and the drive axle is mounted for rotation about an axis parallel and adjacent to one of the flywheel radial surfaces;

a drive wheel is axially shiftable and non rotatably mounted on the drive axle for rotation therewith, and the drive wheel has an outer circumferential surface that rolls along one of the radial surfaces of the fly wheel to transfer rotary motion of the fly wheel to rotary motion of the drive axle;

wherein shifting of the drive wheel along the drive axle changes the gear ratio between the fly wheel and the drive wheel.

53. (New) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned;

an electric drive motor mounted to the housing and a transmission assembly operably connected between the electric drive motor and the traction driver to selectively drive the traction driver in two directions, wherein the transmission is connected to the traction driver through a belt;

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a belt tensioner assembly mounted to the housing to maintain tension on the belt in each of the two directions. and

a drive actuator on the handle operably connected to the drive motor for controlling the selective driving of the traction driver to propel the base over the surface to be cleaned.

54. (New) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned;

a drive motor mounted to the housing and connected to the traction driver through a flexible cable in driving relationship therewith for selectively propelling the base over the surface to be cleaned.

55. (New) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

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a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned;

a wheel sprocket non-rotatably connected to the traction driver for movement therewith; and

a drive motor mounted on the housing in driving relationship with the wheel sprocket for selectively propelling the base over the surface to be cleaned.

56. (New) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned and comprising a drive brush mounted for rotation about a horizontal axis on the base;

a sprocket non-rotatably mounted to the drive brush;

a drive motor mounted to the housing; and

a belt drive between the motor and the sprocket for driving the drive brush;

wherein rotation of the drive brush results in movement of the base across the surface to be cleaned and selectively propels the base over the surface to be cleaned.

57. (New) An extraction surface cleaning apparatus having:

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a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned and comprising a track assembly including:

a pair of track sprockets mounted on the base for rotation about parallel, horizontally spaced axes; and

at least one track belt reeved around the track sprockets and in contact with a surface to be cleaned; and

a drive motor mounted on the housing and operably connected to one of the track sprockets for selectively driving the same for selectively propelling the base over the surface to be cleaned.

58. (New) An extraction surface cleaning apparatus having:

a housing including a base and an upright handle pivotally mounted to the base for manipulation of the base along a surface to be cleaned;

a liquid dispensing system mounted to the housing;

a fluid recovery system mounted to the housing;

a traction driver mounted to the base for supporting the housing for movement along the surface to be cleaned;

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a power drive assembly mounted to the housing and connected to the traction driver for selectively propelling the base over the surface to be cleaned;

wherein the power drive assembly includes a handle grip slidably mounted on an upper end portion of the handle for axial movement along the handle between forward and rearward positions for selectively controlling the movement of the base in a forward and reverse direction over the surface to be cleaned; and

wherein the handle grip is biased to a neutral position between the forward and rearward positions for disablement of the power drive assembly when the handle is in a reclining position.